

IMP. RED KNIFE

N-6

Drilling Authority No. 112
Date issued 22 February, 1962

WELL NAME

FIELD IMP BEDENITE 5-6

Area: Elk Point

LOCATION: Unit

Latitude 60° 56' 00" N

Section

Longitude

Grid

119° 16' 50" W

From Established Reference Marker

Rig Release Date:

Status

Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
MAR 2 1962	Application for a Drilling Authority. Well Completion Data. Well History Report. Application to Amend a Drilling Authority. Application to change a Well Name. Application to Abandon a Well or Suspend Drilling. Application to Alter Condition of a Well. Well History Supplement. Well Completion Data. Work-over Report No. Application to Commingle Production before Measurement. Approval to Commingle Production before Measurement. Application to Amend Approval No. to Commingle Production before Measurement. Application for M.P.R.—Oil. New Oil Well Report. New Gas Well Report. Well Inspection Report. Rig Inspection Report. Battery Inspection Report. Field Abandonment Programme and Approval. Well Card. Well Visit. Daily Drilling Reports.



DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCES DIVISION

Application to Abandon a Well or Suspend Drilling

In compliance with the "Canada Oil and Gas Land Regulations", application is made hereby for approval to abandon, ~~to suspend drilling~~

Name and number of well **Lep Redknife**

Location: Unit Section

Latitude **60°56'00"**

Longitude **119°16'50"**

From Established Reference Marker

Permit No. **907**

Lease No.

Kernell A. Wood
(Permitter, Licensee, Lessee)

Date of commencement of proposed programme

OIL, GAS, AND WATER ENCOUNTERED
Depths

Oil at

Gas at

Water at

Total Depth **3327**

Date of last operations **March 28, 1962**

Present condition of well

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At	Sack of Cement	Method	Amount Pulled
1. 7	20	9 fts.	310.78	100	Disp.	Nil
2.						
3.						
4.						
5.						

PROPOSED ABANDONMENT PROGRAMME

No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	3327-3110		40	
2	2860-2760		40	
3	350-200		40	
4	Surface		8	

The following logs have been run **Conductivity Lateral, Induction Electric, Sonic Gamma Caliper**
Other operations proposed **Welded steel plate on top of casing. Erected steel sign with well name and legal description.**

Operations to be carried out by **Tri-City Drilling Co.** Contractor Licence No. _____
Address **11903 Kingsway, Edmonton, Alberta.** Address _____
Responsible Agent in field **Mr. A. J. McCaskill, c/o Imperial Oil Limited, Dawson Creek, B.C.**
Dated at **Dawson Creek, B. C.**, this **2** Day of **April** 19 **62**
Signed by **District Engineer** Company **Imperial Oil Limited**
Title **District Engineer** Exploratory Licence No. **562**

Note:—The Oil Conservation Engineer's office must be notified before work is commenced.

(For RESOURCES DIVISION use only)

APPROVAL

This application has been examined and proposed programme approved, subject to the following conditions:

Dated **6th April**, 19 **62**

Forms to be submitted in triplicate to Oil Conservation Engineer, Calgary, Alberta



DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
Resources Division

Application for a Drilling Authority

This notice of intention to begin drilling operations, in triplicate, and where required a plan of survey approved by the Surveyor General showing the target area or the site of the well must be submitted and approved before commencing operations.

In compliance with the "Canada Oil and Gas Land Regulations", application is made hereby for approval to drill

Name and number of well **Imp Redknife**

Location. Unit Section

Latitude **60°-56'-00" N**

Grid
Longitude **119°-16'-50" W**

From Established Reference Marker

Elevation: Ground

K.B.

feet above sea-level.

Well is expected to produce from
of about **3000'**

Elk point

formation at a depth

feet. **F.T.D. about 3350'**

Area assigned to well

(For Oil Conservation Engineers use only)

Permit No. **907**

Lease No.

Acreage **62244**

Permittee, licensee, or lesser

Kernell A. Wood

Exploratory Licence No

579

Surface owned by Crown or

Crown

(If alienated submit name and address of owner and occupant.)

Petroleum and natural-gas rights owned by

Crown

We propose to use the following strings of casing, either cementing or landing them as indicated below:—

Casing Size O.D. (Inches)	Weight (Lb. Ft.)	Grade	Brand	New or Used	Estimated Depth	Sacks of Cement
1. 7"	200	J55	Seamless	New	300	Cement returns to the surface. Sufficient on hand at the rig.
2.						
3.						
4.						
5.						

Expected water, gas, and oil horizons and type of control equipment **Surface casing will be set to sufficient depth to control surface waters. Intermediate casing will be set if needed.**

Well will be drilled with (Rotary) Rig No. **1**
(Cable)

by **Tri-City Drilling Co. Ltd.**
(Drilling Contractor or company)

Responsible agent of applicant:—

At well **A. J. McCasidill**
Address **Dawson Creek, B.C.**

Contractor's Licence No.

At registered office **V. J. Moroney**
Address **300 - 9 Avenue S. W., Calgary, Alberta**

It is understood that if changes become necessary, notice of the change of plan will be submitted.

Dated at **Dawson Creek, B.C.**, this **22nd** day of **February** 19**62**

Signed by **[Signature]** Company **Imperial Oil Limited**

Title **District Exploration Engineer** Licence No. **562**

(For Resources Division use only)

APPROVED

This application has been examined and approved subject to the following conditions:—
Notification will be forwarded to this office as soon as the location is determined.
The Operator will submit at least weekly reports as received by radio to this office on Tuesday of each week.

Dated **26th February** 19 **62**

Forms to be submitted to Oil Conservation Engineer, Calgary, Alberta.

COMPLETION

IMPERIAL OIL LIMITED

FORM No. 553

DATE 1950-12-10

PEACE RIVER DISTRICT

PAGE No. 1

CASING-CEMENTING REPORT

REFERENCE TALLY

NO. 1

NAME OF WELL 100' W. 10' N. 10' E.

CONTRACT NO. 100' W. 10' N. 10' E.

PREPARED BY J. L. LIND

CASING	SIZE OD (IN.)	WEIGHT LB/FT	GRADE	MANUFACTURER	COLLARS SHORT/LONG	NO OF JOINTS	AMOUNT FT	DEPTH FT K.B. (O)
	7	20	JIS	DAKOTA	SHORT	1	1.75	
STAGING COLLAR								
BACK OFF COLLAR OR PACKER								
FLOAT COLLAR				DAKOTA			1.42	
CASING	7	20	JIS	DAKOTA	SHORT	1	1.75	
SHOE				DAKOTA			1.75	

HOLE SIZE 7 1/8 IN FROM 0 TO 100 FT

HOLE SIZE 7 IN FROM 247 TO 315 FT

HOLE SIZE 7 IN FROM 0 TO 315 FT

K.B. TO TOP OF SURFACE CASING FLANGE 0 FT

CASING CUTOFF 0 IN ABOVE TOP OF CASING FLGE.

TYPE OF CASING - API 3 EXTREME LINE 0

POWER TONGS USED - YES 0 NO 0

POWER TONGS SUPPLIED BY DAKOTA

TYPE OF FLOAT EQUIPMENT DAKOTA

TOTAL	315.75
CALC AMT UP ON LAST JT	
ACTUAL AMT UP ON LAST JT	
MAKE UP ALLOWANCE	
CASING SET	315.75
TOTAL DEPTH OF HOLE	315

ITEM	TYPE	MANUFACTURER	NO	SPACING FT	INTERVAL COVERED	FT K.B. (O)
SCRATCHERS						
CENTRALISERS	Model 1	DAKOTA	1	10' above shoe		

TYPE OF MUD _____

INITIAL MUD WT _____ LB/GAL VISCOSITY _____ SEC

FINAL MUD WT _____ LB/GAL VISCOSITY _____ SEC

CEMENTED BY _____

CEMENT USED _____ SKS GEL _____ SKS

ADDITIVES _____ AMT _____ SKS

_____ AMT _____ SKS

TIME CASING STARTED IN HOLE _____ A.M. _____ P.M.

DROPPING RATE AT 2000' WAS _____ SEC FOR _____ FT. JT

4000' WAS _____ SEC FOR _____ FT. JT

6000' WAS _____ SEC FOR _____ FT. JT

8000' WAS _____ SEC FOR _____ FT. JT

WAS THERE LOSS OF FLUID WHILE RUNNING PIPE? _____

IF SO AT WHAT DEPTH? _____ FT.

TIME CASING ON BOTTOM _____ A.M. _____ P.M.

CIRCULATION BROKEN AT _____ A.M. _____ P.M.

PRESSURE REQUIRED TO BREAK CIRCULATION _____ P.S.I.

CIRCULATING PRESSURE AFTER CLEANUP _____ P.S.I.

STROKE LENGTH WHILE RECIPROCATING _____ FT. INITIALLY

_____ FT. FINALLY

TIME STARTED MIX CEMENT _____ A.M. _____ P.M.

WAS BOTTOM PLUG USED _____?

PRESSURE JUST BEFORE PLUG HITS _____ P.S.I.

MAXIMUM PRESSURE _____ P.S.I.

PLUG CHASED WITH _____ AND BUMPED AT _____ A.M. _____ P.M.

STROKE LENGTH WHILE CEMENTING _____ FT.

WAS THERE ANY DIFFERENCE IN PUMP PRESSURE ON UPSTROKE AND DOWNSTROKE? _____ NONE _____ P.S.I.

MUD RETURNS WHILE CEMENTING ☐ FULL ☐ PARTIAL

☐ NONE. EXPLAIN IN REMARKS

RECIPROCATION STOPPED AT _____ A.M. _____ P.M.

REMARKS: _____

IMP REDEPOSIT

60°0'40"N. - 119°16'10"W.

LITHOLOGICAL DESCRIPTION

K.B. 978.9'

- 914' - 1099' : Interbedded limestone, buff, micritic, silty, argillaceous minor brachiopods and solitary corals. Siltstone, light olive gray to light green gray, glauconitic, friable in part, calcareous in part. Below 960' also: Shale, green, silty, grades in part to green argillaceous siltstone.
- 1099' - 1121' : Limestone, argillaceous and interbedded green shale.
- 1121' - 2480' : Interbedded limestone, buff, micritic, silty, argillaceous, minor brachiopods and corals. Siltstone, light gray to light green gray, calcareous, glauconitic, minor chert, friable in part mainly light olive gray above 1210'. Mainly light green gray below 1210'.
Shale, green to maroon brown, silty, slightly calcareous, trace pyrite, micromicaceous in part, fissile in part.
Percent maroon brown shale is minor above 1500'.
- 2480' - 2710' : Interbedded limestone, light to medium gray, micritic, slightly silty, argillaceous, trace pyrite, in part grades to very calcareous shale, rare brachiopods. Shale, green to maroon to brown, silty, slightly calcareous, pyritic in part, fissile in part, bituminous flecks in the green shale.
- 2710' - 2844' : Limestone becomes dark brown grey.
- 2844' - 2860' : Limestone as above.
- 2860' - 3000' : Limestone, medium to dark brown, pelletal micritic to micritic pelletal, cemented pelletal in part, trace dolomite, argillaceous material and pyrite, minor floating small euhedral quartz crystals, trace oolites scattered sparry calcite, trace bitumen along fractures.
2950' - 2960' : fair fine vuggy porosity.
Minor amphipora type fossils, stromatoporoids and brachiopods.
- 3000' - 3010' : Interbedded limestone, light brown. Shale, green, very pyritic, about 10% of the interval is a limestone breccia, the green shale is the matrix.

- 3010' - 3130': Limestone, white to light buff, micropelletal micritic cemented micropelletal in part, trace pyrite and anhydrite, minor sparry calcite, common small brachiopod fragments and amphipora type fossils, rare cabbage-like stromatoporoids and large brachiopods. Minor gray green shale partings. Minor very porous silt size, core bleeding oil and gas in small part.
- 3130' - 3150': Limestone dolomitic grading to calcareous dolomite, limestone, medium to dark brown micritic skeletal, micritic micropelletal in part, dolomitic, argillaceous common small brachiopods, rare crinoids.
- 3150' - 3292': Dolomite, light brown to medium brown, fine to coarse microcrystalline, calcareous, pyritic in part, trace argillaceous material, trace bitumen in fractures, trace anhydrite in part relict pelletal micritic texture, or micritic skeletal. Below 3250' the dolomite is interbedded with limestone, light buff, micritic, very argillaceous very dolomitic, pyritic in part.
- 3292' - 3315': Sandstone, light gray, red to maroon in the lower part, quartzose, argillaceous in the lower part, calcareous in part, pyritic in part friable in part. 3290' - 3300': Quartz grains very well rounded and frosted.
- 3315' - 3327': Granite, pink, micaceous, minor epidote chloritic in part, about 10 feet of weathered zone.

-- K. Roy --

Geologist

KR:sg

May, 1962

Dawson Creek, B. C.







NWT

IMP REDKNIFE

60°55'49"W. 119°16'10"W.

SUMMARY OF WELL DATA

K.B. 978.8'

Location : 60°55'49"W. - 119°16'10"W.
N-5 61°00' - 119°15'

Elevation : Ground 970.9' K.B. 978.8'

Permit : 907

Exploratory Licence : 562

Contract : NC-9

Drilling Contractor : Tri-City Drilling Co. Ltd. Rig #3

Operator : Imperial Oil Limited

Classification : Wildcat

Basis of Location : 1. Gas up dip at Rabbit Lake
2. Porous dolomite down dip at Wilkenson Redknife #2

Spudded : 1:15 P.M. March 2, 1962

Completed Drilling : 11:00 A.M. March 26, 1962

Rig Released : 4:00 P.M. March 28, 1962

Total Depth : 3527' Driller 3330' Schlumberger

Well Status : Abandoned

Hole Size : 9" x 315' 6X" x 3327'

Casing : 7", 20 lb/ft x 310.78', cemented with 100 sacks
+ 2% CaCl₂
Casing split recemented at 245.27' with 122 sacks
+ 3% CaCl₂

Geological Supervision: Kenneth Roy

Cont'd....2

SummaryDrilling Supervisor : Cleo Dease

<u>Formation Tops</u>	<u>Sample</u>	<u>E-Log</u>	<u>Elev. E-Log</u>
Winterburn Formation		914'	+ 65'
Island River Member		1099'	- 120'
Woodbend Formation		1121'	- 142'
Dark Shale		2844'	-1865'
ARROWHEAD GROUP			
Slave Point Formation	2854'	2860'	-1881'
Watt Mountain Formation	2998'	3000'	-2021'
Sulphur Point Formation	3008'	3010'	-2031'
LOWER ARROWHEAD	3140'	3138'	-2159'
Dolomite		3150'	-2171'
PREDEVONIAN	3294'	3292'	-2313'
PRECAMBRIAN	3315'	3315'	-2336'
Final Total Depth		3327'	-2348'

<u>Cores</u>	<u>No.</u>	<u>Interval</u>	<u>Recovery</u>	<u>Formation</u>
	1	2877' - 2912'	100%	Slave Point
	2	2969' - 3009'	100%	Slave Point Watt Mountain Sulphur Point
	3	3009' - 3035'	100%	Sulphur Point
	4	3035' - 3075'	100%	Sulphur Point
	5	3167' - 3197'	100%	Lower Arrowhead

Drill Stem Tests : No tests run.

<u>Plugs</u>	<u>No.</u>	<u>Interval</u>	<u>Plugs</u>
	1	3327' - 3110'	40 sacks
	2	2860' - 2760'	40 sacks + 2% CaCl ₂
	3	350' - 200'	40 sacks + 2% CaCl ₂
		surface	8 sacks, cut casing off 5' below ground level and welded plate.

<u>Logs</u>	<u>Type</u>	<u>Run</u>	<u>Date</u>	<u>From</u>	<u>To</u>
	Induction/Electric	1	Mar. 27/62	3325'	320'
	Gamma Ray Sonic Caliper	1	Mar. 27/62	3312'	320'
	Conductivity Laterolog	3	Mar. 27/62	3327'	320'

Kenneth Roy
Geologist

KR:sg

May, 1962
Dawson Creek, B. C.

DYP RECKNIFE

60°55'49"W. - 119°15'10"W.

CORE DESCRIPTION

- CORE #1 2877' - 2912' Recovered 35'
- 2877' - 2891' : Limestone, medium to dark brown, skeletal micrite, fossiliferous thinly laminated in part, by thin argillaceous bands. Interbedded limestone, light brown, granular, very fine. Poor to some fair porosity.
- 2891' - 2895' : Limestone, light gray brown, calcite laminated in part. Some fossils, stylolitic in part. Poor scattered vuggy porosity.
- 2895' - 2899.5' : Limestone, medium brown, skeletal. Some fossils. Bitumen fills many of the pores. Some calcite crystals. Tight.
- 2899.5' - 2905' : Limestone, light brown, pelletal, cemented in part. Some fossils. Minor stylolites, some calcite lenses, tight.
- 2905' - 2911' : Limestone, light to medium brown, pelletal, cemented in part, some fossils. Minor argillaceous streaks. Tight.

-- Ken Roy --

Geologist

KR:sg

May, 1962

Dawson Creek, B. C.

IMP REDKNIFE

60°55'49"W. 119°16'10"W.

CORE DESCRIPTION

CORE #2

- 2969' - 2977' : Limestone, dark brown, pelletal micritic. Trace pyrite. Trace argillaceous material. 2 inch band (2972') slight oil and gas bleeding. Tight.
- 2977' - 2978.5' : Limestone, dark brown, micritic. Some argillaceous and bituminous material. Tight.
- 2978.5' - 2989' : Limestone, dark brown, micritic. Some fossils. At 2979' - 2" core bleeding oil and gas. At 2988.5' - 1" core bleeding oil and gas. Essentially tight.
- 2989' - 2995' : Limestone, light brown, micritic, brecciated in part, very pyritic and argillaceous along fractures. Minor interbeds and lenses of limestone, cemented pelletal. Some argillaceous material. Tight.
- 2995' - 3008' : Interbedded limestone, light brown, micritic. Minor fossils. Shale, green, very pyritic, many very small nodules of limestone. Breccia in part.
- 3005' - 3006.5' : Shale, gray green, pyritic. Blocky fracture.
- 3008' - 3009' : Limestone, white to light buff, micropelletal, trace argillaceous streaks, tight.

— Ken Roy —

Geologist

KR:sg

May, 1962
Dawson Creek, B. C.

IMP ROCKWIFE

60°55'49"W. - 119°16'10"W.

CORE DESCRIPTION

CORE #

3009' - 3035'

Recovered 26'

3009' - 3035': Limestone, light buff, pelletal micritic. Some fossils. Pellets, fine to coarse. Some breccia with green pyritic shale matrix.

3012' - 3016': Trace to fair vuggy porosity, scattered bleeding light gravity oil.

3034' - 3035': Fair vuggy porosity, scattered, trace light gravity oil.

-- Ken Roy --

Geologist

KR:ag

May, 1962

Dawson Creek, B. C.

IMP REDKNIFE

60°55'49"N. - 119°16'10"W.

CORE DESCRIPTION

CORE #4

3035' - 3075'

Recovered 40'

3035' - 3075': Limestone, white to light buff, micritic. Trace anhydrite, trace bitumen in fractures. Some fossils. Stylolitic in part. Minor shale breaks and lenses, maximum thickness 2", green, very pyritic, often slickensided. Minor bleeding light gravity oil and gas from fractures, essentially tight.

3036' - 3038': Limestone, white to light buff, micritic.

3070' - 3073': Trace fine vuggy porosity scattered trace fracture porosity.

3069.5' - 3070': Shale, gray green, in part grey brown, very pyritic, waxy in part. Some fossils.

-- Ken Roy --

Geologist

KR:sg

May, 1962

Dawson Creek, B. C.

IMP REDKNIFE

60°55'49"W. - 119°16'10"W.

CORE DESCRIPTION

CORE #5

3167' - 3197'

Recovered 30'

3167' - 3169' : Limestone, dark brown, micrite. Some fossils. Scattered argillaceous material. Some dolomite (rhombs), very fine crystalline, trace pyrite. Tight.

3169' - 3171.5' : Limestone as above but increasing amount of dolomite, tight.

3171.5' - 3174.5' : Dolomite, dark gray brown, very fine to fine crystalline. Some argillaceous material, trace pyrite. Trace coarse micro intercrystalline porosity;

3174.5' - 3180.5' : Limestone, light to medium brown, micrite, trace fossils. Some dolomite, fine to very fine crystalline. Trace argillaceous material, pyrite. Trace bitumen along fractures. Very stylolitic, appears brecciated in part. Trace coarse micro intercrystalline porosity, scattered in the very dolomitic limestone.

3180.5' - 3195.5' : Dolomite, light brown to medium brown, fine to very fine crystalline. Minor stylolites, minor patch white dolomite. Uniform good fine to very fine intercrystalline porosity.

3195.5' - 3197' : Dolomite, gray to light gray brown. Very stylolitic essentially tight.

-- Ken Roy --

Geologist

KR:sg

May, 1962

Dawson Creek, B. C.

IMP REDONIFE

60°55'49"W. - 119°16'10"W.

LITHOLOGICAL DESCRIPTION

K.B. 978.9'

- 914' - 1099' : Interbedded limestone, buff, micritic, silty, argillaceous minor brachiopods and solitary corals. Siltstone, light olive gray to light green gray, glauconitic, friable in part, calcareous in part. Below 960' also: Shale, green, silty, grades in part to green argillaceous siltstone.
- 1099' - 1121' : Limestone, argillaceous and interbedded greenish shale.
- 1121' - 2480' : Interbedded limestone, buff, micritic, silty, argillaceous, minor brachiopods and corals. Siltstone, light gray to light green gray, calcareous, glauconitic, minor chert, friable in part mainly light olive grey above 1210'. Mainly light green gray below 1210'.
Shale, green to maroon brown, silty, slightly calcareous, trace pyrite, micromicaceous in part, fissile in part.
Percent maroon brown shale is minor above 1500'.
- 2480' - 2710' : Interbedded limestone, light to medium gray, micritic, slightly silty, argillaceous, trace pyrite, in part grades to very calcareous shale, rare brachiopods. Shale, green to maroon to brown, silty, slightly calcareous, pyritic in part, fissile in part, bituminous flecks in the green shale.
- 2710' - 2844' : Limestone becomes dark brown grey.
- 2844' - 2860' : Limestone as above.
- 2890' - 3000' : Limestone, medium to dark brown, pelletal micritic to micritic pelletal, cemented pelletal in part, trace dolomite, argillaceous material and pyrite, minor floating small euhedral quartz crystals, trace colites scattered sparry calcite, trace bitumen along fractures.
2950' - 2960' : fair fine vuggy porosity.
Minor amphipora type fossils, stromatoporoids and brachiopods.
- 3000' - 3010' : Interbedded limestone, light brown. Shale, green, very pyritic, about 10% of the interval is a limestone breccia, the green shale is the matrix.

- 3010' - 3138': Limestone, white to light buff, micropelletal micritic cemented micropelletal in part, trace pyrite and anhydrite, minor sparry calcite, common small brachiopod fragments and amphipora type fossils, rare cabbage-like stromatoporoids and large brachiopods. Minor gray green shale partings. Minor vuggy porosity silt size, core bleeding oil and gas in small part.
- 3138' - 3150': Limestone dolomitic grading to calcareous dolomite, limestone, medium to dark brown micritic skeletal, micritic micropelletal in part, dolomitic, argillaceous common small brachiopods, rare crinoids.
- 3150' - 3292': Dolomite, light brown to medium brown, fine to coarse microcrystalline, calcareous, pyritic in part, trace argillaceous material, trace bitumen in fractures, trace anhydrite in part relict pelletal micritic texture, or micritic skeletal. Below 3250' the dolomite is interbedded with limestone, light buff, micritic, very argillaceous very dolomitic, pyritic in part.
- 3292' - 3315': Sandstone, light gray, red to maroon in the lower part, quartzose, argillaceous in the lower part, calcareous in part, pyritic in part friable in part. 3290' - 3300': Quartz grains very well rounded and frosted.
- 3315' - 3327': Granite, pink, micaceous, minor epidote chloritic in part, about 10 feet of weathered zone.

-- K. Roy --

Geologist

KR:sg

May, 1962

Dawson Creek, B. C.

WEEKLY CHRONOLOGICAL WELL REPORT

Well IMP REDKNIFE

Location 60°55'49"N.
119°16'10"W.Elev 970.9' GRD.
978.8' K.B.

District Peace River

Week Ending Mar. 6/62

Report No. 1

Date	Total Depth	Progress	Days	REMARKS
Mar. 3	150'	150'	1	<u>SPUDED 1:15 P.M. MARCH 2, 1962.</u> Drilled surface hole 0' - 150' with bit #1A, 9 7/8", OSC-3, ser. no. 70169 Mud Additives: 2350 lbs. gel, 55 lbs. caustic, 50 lbs. Driacose 7:30 A.M. Visc. 60 Lost circulation, ran water in the pit and Conditioning mud. At 8:00 A.M. Condition Mud.
Mar. 4	288'	138'	2	Drilled 150' - 247' with bit #1A. Tripped, drilled 247' - 288' with bit #2A, 9", OSC-3, serial no. 56672. Mud additives: 100 lbs. gel, 2 bag sawdust At 6:00 A.M. Visc. 60 Survey 184' - 1/4" At 8:00 A.M. Drilling.
Mar. 5	315'	27'	3	Drilled 288' - 315' with bit #2A. Ran surface casing, 9 fts., 7", 20 lbs. short collar, Rge. 2 J-55, Japanese casing, landed at 310.78' K.B. Cemented by Haliburton with 100 sacks + 2% CaCl₂. Plug down 3:15 P.M. Mar. 4/62 At 8:00 A.M. Heading up while waiting on cement.
Mar. 6	485'	170'	4	Pressured up to 700 psi., OK. Drilled 315' - 485' with bit #1 6 1/2", OSC-1G serial no. 72097. At 8:00 A.M. Drilling.

— Ken Roy —

Geologist

WEEKLY CHRONOLOGICAL WELL REPORTWell IMP REDKNIFELocation 60°55'49"N.
119°16'10"W.Elev. 978.8' K.B.District Peace RiverWeek Ending Mar. 13/62Report No. 2

Date	Total Depth	Progress	Days	REMARKS
Mar. 7	767'	282'	5	Drilled 485' - 525' with bit #1. Tripped. Drilled 525' - 767' with bit #2, 6 1/2", OSC-1G, ser. no. 72111. At 8:00 A.M. Drilling.
Mar. 8	1075'	308'	6	Drilled 767' - 827' with bit #2. Tripped. Drilled 827' - 1075' with bit #3, 6 1/2", OSC-1G, serial no. 33107 at 12:30 A.M. Mar. 8, pulled up to surface casing to mix mud, then ran back in to drill. Mud additives: 2600 lbs. gel, 50 lbs. spersene, 25 lbs. caustic. At 6:00 A.M. March 8, 1962 Visc. 35 At 8:00 A.M. Drilling.
Mar. 9	1261'	184'	7	Drilled 1075' - 1190' with bit #3. Tripped out on starting back in couldn't through surface casing. Pulled out and ran in Bullnose Tool to center parted casing (parted at 245.27' K.B.) Ran in with bit. Drilled 1190' to 1261' with bit #4, 6 1/2" OSC-1G, serial no. 34793. Mud additives: 200 lbs. bicarbonate. Survey: 1100' - 1" At 8:00 A.M. Drilling.
Mar. 10	1493'	232'	8	Drilled 1261' - 1493' with bit #4, tripped out. Measured out STMC +3') corrected Board Tally. Mud additives: 400 lbs. bicarbonate. At 8:00 A.M. Tripping in with bit #5.
Mar. 11	1796'	303'	9	Drilled 1493' - 1796' with bit #5, 6 1/2", OSC-1G serial no. 72091. Mud additives: 100 lbs. bicarbonate, 50 lbs. spersene. At 12:00 P.M. March 11, Visc. 34, Wt. 9.4 At 8:00 P.M. March 10 W.L. 21 At 8:00 A.M. Tripping out, recement surface casing.

Cont'd...2

IMPERIAL OIL LIMITED

WEEKLY CHRONOLOGICAL WELL REPORT

Well IMP REDWIFE

Location 60°55'49"N.
119°16'10"W.

Elev 978.8' K.B.

District Peace River

Week Ending Mar. 13/62

Report No. 2
Page 2

Date	Total Depth	Progress	Days	REMARKS
Mar. 12	1796'	0'	10	Tripped out to recement parted surface casing. Mud additives: 100 lbs. bicarbonate, 200 lbs. gel, 1 sack sawdust Ran in wooden plug to center lower 2 jts. of casing, not successful. Recemented surface casing by Halliburton with 122 sacks + 3% CaCl_2. Plug down 2:15 P.M. March 11, 35 sacks returns. Waiting on cement - 15$\frac{1}{2}$ hours. Ran in, touched plug at 179'. At 8:00 A.M. Drilling out plug.
Mar. 13	1826'	30'	11	Drilled out plug, ran casing roller and rolled top of lower section of casing. Ran top bottom with bit, bit plugged, pulled out and dug out plugged bit and 90' of D.C. Ran in, reamed 120' of hole. Drilled 1796' - 1826' with bit #6, 6$\frac{1}{2}$", OSC-1G, serial no. 69258. Lost Kelly bushing drive pins down the hole (3 pins). Tripped out. Mud additives: 1000 lbs. gel, 100 lbs. bicarbonate, 50 lbs. spersene, 25 lbs. caustic. At 4:00 P.M. March 12 - Visc. 32 Wt. 9.1 WL 23 pH 11 At 8:00 A.M. Preparing to run magnet.

-- Ken Roy --

Geologist

WEEKLY CHRONOLOGICAL WELL REPORTWell IMP REDKNIFELocation 60°55'49" N.
119°16'10" W.Elev 978.8' K.B.District Peace RiverWeek Ending Mar. 20/62Report No. 3

Date	Total Depth	Progress	Days	REMARKS
Mar. 14	2050'	224'	12	Repaired Kelly bushing. Ran in. Drilled 1826' - 2050' with bit #7, 6 1/2", OSC-1G serial no. 97088. Mud additives: 100 lbs. spersene. At 6:00 A.M. Visc. 35 Wt. 10.3 At 2:00 P.M. WL 15 Survey: 1600' - 1/4" At 8:00 A.M. Drilling.
Mar. 15	2242'	192'	13	Drilled 2050' - 2071' with bit #7. Tripped. Drilled 2071' - 2242' with bit #8, 6 1/2", OSC-3, serial no. 80583. Mud additives: 1900 lbs. gel, 100 lbs. spersene. At 6:00 A.M. Visc. 37, Wt. 9.7, WL 14 Survey: 2100' - 1 1/4" At 8:00 A.M. Drilling.
Mar. 16	2495'	253'	14	Drilled 2242' - 2444' with bit #8. Tripped, replaced 4 flex pipe with 4 (3 1/2") drill pipe. Reamed 25'. Drilled 2444' - 2495' with bit #9, 6 1/2", OSC-1G ser. no. 97079. Mud additives: 250 lbs. spersene. 600 lbs. gel 25 lbs. caustic At 6:00 A.M. Visc. 38, Wt. 9.9, W.L. 11 At 8:00 A.M. Drilling.
Mar. 17	2776'	281'	15	Drilled 2495' - 2776' with bit #9. Mud additives: 1300 lbs. gel, 25 lbs. caustic 50 lbs. spersene. At 12:00 A.M. Mar. 17/62 Visc. 38 Wt. 10.4 WL 9 pH 8 At 8:00 A.M. Drilling.
Mar. 18	2877'	101'	16	Drilled 2776' - 2838' with bit #9. Tripped. Tallied out. OK. Reamed 45' to bottom. Drilled 2838' to 2877' with bit #10 OSC-1G, 6 1/2", serial no. 69258. Tripped. Ran in with core barrel and circulate to bottom. Mud additives: 1200 lbs. gel, 100 lbs. spersene, 25 lbs. caustic.

Cont'd..2

WEEKLY CHRONOLOGICAL WELL REPORTWell IMP REDKNIFELocation 60°55'49"N.
119°16'10"W.Elev. 978.8' K.B.
970.9' GRD.District Peace RiverWeek Ending Mar. 20/62 Report No. 3
Page 2

Date	Total Depth	Progress	Days	REMARKS
Mar. 18	Cont'd.			At 8:00 A.M. Visc. 37, Wt. 9.4 Survey: 2877' - X° At 8:00 A.M. circulating to bottom with core barrel.
Mar. 19	2927'	50'	17	Diamond cored 2877' - 2912' with diamond bit #1 6 1/8" CORE #1, Rec. 35/35 Tripped. Hole very tight, stuck for 1 1/2 hrs. Ran in bit #10, 6 1/2", OWV ser. no. 74733. Reamed 2877' - 2912' Drilled 2912' - 2927' Mud additives: 2100 lbs. gel 85 lbs. caustic 100 lbs. spersene. At 6:00 A.M. Visc. 45, Wt. 10.1 At 8:00 A.M. Drilling in Slave Point. Limestone, medium to dark brown cemented in part.
Mar. 20	2977'	50'	18	Drilled 2927' - 2969' with bit #10. Tripped ran core barrel reamed 35' to bottom. Diamond cored 2969' - 2977', diamond CORE #2 Mud additives: 1200 lbs. gel, 30 lbs. dis- cose, 50 lbs. caustic. At 6:00 A.M. 75 visc., 10.3 Wt., 7 WL 9 pH At 8:00 A.M. cutting diamond CORE #2

— Ken Roy —

Geologist

WEEKLY CHRONOLOGICAL WELL REPORTWell IMP REDKNIFELocation 60°55'49"N.
119°16'10"W.Elev 978.8' K.B.
970.9' GRD.District Peace RiverWeek Ending Mar. 27/62 Report No. 4

Date	Total Depth	Progress	Days	REMARKS
Mar. 21	3035'	58'	19	Diamond cored 2977' - 3009' with diamond bit #1 ser. no. 49086, diamond core #2. Tripped, recovered 40/40'. Ran back in to cut <u>CORE #3</u> . Diamond cored 3009' - 3035' with diamond bit #1, diamond <u>CORE #3</u> . Tripped out; tight hole 2750' - 2600'. At 4:00 A.M. Visc. 70, Wt. 10.3. At 8:00 A.M. pulling pipe to recover <u>CORE #3</u> . Watt Mountain 2995'. Sulphur Point 3011'. Limestone, white to light buff, micrograined cemented in part, minor green shale interbeds. Core bleeding oil and gas in part.
Mar. 22	3055'	20'	20	Pulled diamond <u>CORE #3</u> recovered 26/26'. Ran in with bit reamed rat hole. Tripped. Ran in with core barrel, 17' fill, diamond cored 3035' - 3055' with diamond bit #1, 6 1/8" serial. no. 49086. Mud additives: 1600 lbs. gel, 50 lbs. driscose. At 6:00 A.M. visc. 68 Wt. 10.1. At 8:00 A.M. diamond coring core #4.
Mar. 23	3116'	61'	21	Cut Diamond core #4, 3055' - 3075', pulled core, Recovered 40/40. Used diamond bit #1, 6 1/8". Tripped, reamed rat hole. Drilled 3075' to 3116' with bit #11, 0WV, 6 1/8", serial no. 33845. Mud additives: 25 lbs. caustic, 50 lbs. spersene, 800 lbs. gel. At 6:00 A.M. Visc. 85, Wt. 10.1. At 8:00 A.M. Drilling in Sulphur Point.
Mar. 24	3178'	62'	22	Drilled 3116' - 3167' with bit #11. Tripped ran in with core bit 15 feet of fill. Diamond core 3167' - 3178' with diamond bit #1. Mud additives: 100 lbs. Driscose. At 6:00 A.M. Visc. 100, Wt. 10, WL 6.5 pH 8

Cont'd...2

IMPERIAL OIL LIMITED

WEEKLY CHRONOLOGICAL WELL REPORTWell IMP REDKNIFELocation 60°55'49"W.
119°16'10"W.Elev 978.8' KB.
970.9' GRD.District Peace RiverWeek Ending Mar. 27/62Report No. 4

Date	Total Depth	Progress	Days	REMARKS
Mar. 25	3240'	62'	23	Diamond cored 3178' - 3197' with bit #1. Tripped to recover CORE #5. Recovered diamond CORE #5 3167' - 3197'. Ran in with bit. Drilled 3197' - 3240' with bit #12, OSC, 6 1/2" ser. no. 52933. Mud additives: 900 lbs. gel, 25 lbs. caustic, 50 lbs. spersene. At 6:00 A.M. 78 visc., 10.1 Wt. At 8:00 A.M. Drilling.
Mar. 26	3314'	74'	24	Drilled 3240' - 3286' with bit #12. Tripped, cleaned 8' to bottom. Drilled 3286' - 3314' with bit #13, 6 1/2", OSC, serial no. 37104. Mud additives: 50 lbs. caustic, 50 lbs. spersene. At 6:00 A.M. Visc. 78 Wt. 10.2 At 8:00 A.M. Drilling.
Mar. 27	3327' F.T.D.	13'	25	Drilled 3314' - 3327' with bit #13. Waited on Schlumberger. Made dummy trips. Pulled out to log. Mud additives: 50 lbs. caustic, 50 lbs. spersene, 800 lbs. gel. At 2:00 A.M. 140 visc. 10.4 Wt. 7.5 WL At 8:00 A.M. Logging.

— Ken Roy —

Geologist

WEEKLY CHRONOLOGICAL WELL REPORT

Well IMP REDKNIFE Location 60°55'49" N. 119°16'10" W. Elev. 798.9' K.B.
 District Peace River Week Ending Apr. 3/62 Report No. 5

Date	Total Depth	Progress	Days	REMARKS
Mar. 28	3327' FTD	0'	26	Ran IFS, GRSC, conductivity/Laterolog 3 Ran PLUG #1 3327' - 3110' 40 sacks, plug down 5:00 P.M. March 27. Ran PLUG #2, 2860 to 2760', 40 sacks + 2% CaCl ₂ . Plug down 6:15 P.M. March 27. Felt plug #2 at 2:15 A.M. March 26. Ran <u>PLUG #3</u> 350' - 200', 40 sacks + 2% CaCl ₂ Plug down 4:00 A.M. March 28. At 8:00 A.M. Waiting on cement.
Mar. 29	3327'	0'	27	Felt <u>PLUG #3</u> at 195' at 1:00 P.M. Mar. 28 Cemented surface with 8 sacks. <u>RIG RELEASED 4:00 P.M. MARCH 28, 1962.</u>
KR:sg May, 1962 Dawson Creek, B. C.				-- Ken Roy -- Geologist

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 27Imp RED KNIFE L.S.D.

SEC. TWN. RGE. W.

Contractor TRI-CITYType Rig FAIRLINE 2500 Month MARCH Day 22 1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH	1st Tour From: 12:00 Midnight To: 8:00 a.m.					2nd Tour From: 8:00 a.m. To: 4:00 p.m.					3rd Tour From: 4:00 p.m. To: 12:00 p.m.													
	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation									
3327																								
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL						
	COLLAR					DRILLING STRING	COLLAR					DRILLING STRING	COLLAR					DRILLING STRING						
	DATA					DRILL COLLARS	DATA					DRILL COLLARS	DATA					DRILL COLLARS						
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE
								Drilled									Drilled							Drilled
								Reamed									Reamed							Reamed
	Bit Serial No.	Table R.P.M.				Bit Serial No.	Table R.P.M.				Bit Serial No.	Table R.P.M.												
SURVEYS	Jet or Conventional -	Nozzle Size				Jet or Conventional -	Nozzle Size				Jet or Conventional -	Nozzle Size												
	Kind	at	Ft.	Deg. off	Kind	at	Ft.	Deg. off	Kind	at	Ft.	Deg. off												
	HOURS	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size									
	On Line	Circulating				On Line	Circulating				On Line	Circulating												
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS						
	FELT PLUG #2 @ 2675' 2:15 AM						FELT #3 PLUG AT 195' 1 PM						CEMENTED TOP OF CASING WITH 8 SKs.											
	PLUG #3												WELDED PLATE IN TOP OF CASING											
	RAN 40 SKs + 2' CALCA TO PLUG																							
CORING	INTERVAL 350-200 DISPLACE 1.6 BBL CUT OFF CASING																							
	PLUG DOWN AT 4 AM.																							
	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.						
DETAIL OF OPERATIONS AND REMARKS	WOC	12:00	2:00	2	W.O.C.	8	12:30	RIG RELEASED 4 PM - 6 PM																
	run in on top of plug	2:00	2:15	1/4	Run in - feel plug #3	12:30	1:00	3/28/1962																
	laying down pipe	2:15	3:45	1 1/4	Remove B.O.P. cone	1	4:00																	
	Cementing	3:45	4:00	3/4	top of casing & erect sign																			
REMARKS	laying down pipe & WOC	4:00	8:00	4																				

Driller Joseph A. KatchunDriller WariDriller S. PoirsonHEADING UP & DRG. OUT:
DRILLING:
REAMING:CLASSES OF TIME BREAKDOWN
TOTCO:
FISHING:
CIRCULATING:CONDITIONING MUD:
TRIPPING:
CORING:CASING:
W.O.C.
D.S. TESTING:LOGGING:
W O ORDERS:
RIG REPAIRS:RIG MAINTENANCE:
MISCELLANEOUS:
CONDITION HOLE:REAMING CLEANING:
WORKING PIPE:
LOST CIRC.:MNFR. DRILLING LINE IN USE
MNFR. OF KELLY HOSE IN USE

REEL SERIAL No.

HOSE SERIAL No.

DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 210Contractor Tri-City Drilling Rig³ Type Rig Trailing 2500 Month March Day 27 1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.										
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				
3327										3327										3327										
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.					
		106	1		419.70					106				1970																
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				
COLLAR		1	4 3/4	2 1/2	28.88	DRILLING STRING				COLLAR						DRILLING STRING				COLLAR						DRILLING STRING				
DATA						1500				DATA										DATA										
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE			
									Drilled Reamed									Drilled Reamed									Drilled Reamed			
Bit Serial No.						Table R.P.M.				Bit Serial No.						Table R.P.M.				Bit Serial No.						Table R.P.M.				
Jet or Conventional -						Nozzle Size				Jet or Conventional -						Nozzle Size				Jet or Conventional -						Nozzle Size				
SURVEYS		Kind	at				Deg. off				Kind		at				Deg. off				Kind		at				Deg. off			
SH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size									
No. 1		On Line	Circulating						On Line		Circulating						On Line		Circulating											
No. 2																														
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS					
		2:00	140	10.4	7.5																									
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.									
DETAIL OF OPERATIONS AND REMARKS						From	To	Hrs.					From	To	Hrs.					From	To	Hrs.								
		Put out to log				12:00	1:30	1 1/2	Logging				8:00	12:00		Finish running in hole				4:00	4:45	3/4								
		Logging				1:30	8:00	6 1/2	Wait on order				12:00	3:00		Cementing				4:45	5:00	1/4								
		Ran IFS 3325-320							Run in to plug				3:00	4:00		pull out 1st string				5:00	5:45	3/4								
		GRSC 3212-320														Cementing				5:45	6:15	1/2								
		conductivity/calculating														W.O.C.				6:15	12:00	5 3/4								
		3327-320														(taking down prefabs)														
Driller		Joseph A. Katchum								Driller				R. Wain								Driller				M. Parris				

HEADING UP & DRLG. OUT:
DRILLING:
REAMING:CLASSES OF TIME BREAKDOWN
TOTCO:
FISHING:
CIRCULATING:CONDITIONING MUD:
TRIPPING:
CORING:CASING:
W.O.C.
D.S. TESTING:LOGGING:
W O ORDERS:
RIG REPAIRS:RIG MAINTENANCE:
MISCELLANEOUS:
CONDITION HOLE:REAMING CLEANING:
WORKING PIPE:
LOST CIRC.:MNFR. DRILLING LINE IN USE
MNFR. OF KELLY HOSE IN USE

REEL SERIAL No.

HOSE SERIAL No.

DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Time _____ hrs.

Total Company Time _____ hrs.

Toolpusher _____

Approved by _____

Imp. Red Knife LSD. #1 SEC. TWN. RGE. W. Contractor Tri-City Type Rig FAIRING 2500 Month MARCH Day 26 19 62

1st Tour From: 12:00 Midnight To: 8:00 a.m.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH	1st Tour From: 12:00 Midnight To: 8:00 a.m.					2nd Tour From: 8:00 a.m. To: 4:00 p.m.					3rd Tour From: 4:00 p.m. To: 12:00 p.m.																		
	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation														
3286	3314	28	6 1/4	DOL. RED BEDS		3314	3327	13	6 1/4	SAND GRANITE	3327	1.0	—	6 1/4															
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.											
	3 1/2	106		2	28.88		3 1/2	106		19.70			4 1/2	106	32.79	19.70	28.88												
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL											
	COLLAR					DRILLING STRING	DRILL COLLARS	COLLAR					DRILLING STRING	DRILL COLLARS	COLLAR	1	4 3/4		28.88	42.000	15.00								
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE					
	13	OSC	1:30				15.77										13	OSC						41					
	Bit Serial No.	37104				Table R.P.M.	120	Bit Serial No.					Table R.P.M.		Bit Serial No.	37104				Table R.P.M.									
	Jet or Conventional	C.O.N.				Nozzle Size		Jet or Conventional					Nozzle Size		Jet or Conventional					Nozzle Size									
SURVEYS	Kind	at	Ft.	Deg. off	HOURS				Kind	at	Ft.	Deg. off	HOURS				Kind	at	Ft.	Deg. off	HOURS								
					On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size					On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size					On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS					
	2	92	10.2																										
	4	90	10.2	7.5	8																								
	6	98	10.2																										
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.											
DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.																				
	TRIP IN	12	1:30	1 1/2	DRILLING	8	8:30	1/2	Circ & weight on logging	4:00																			
	BREAK CIRC				SERVICE RIG				touch																				
	9 CLEAN OUT 8'	1:30	2:15	3/4	CHECK BOP'S	8:30	9:45	1/4	pull and to log	11:30	12:00	1/2																	
	DRILLING	2:15	6	3 1/4	DRILLING	9:45	12:30	3 1/4																					
	WORK ON PUMP	6	6:15	1/4	WAIT ON LOGGERS	12:30	4	3 1/4																					
	DRILLING	6:15	8	1 3/4	PULLED 15 STDS. HOLE OK																								
					CONDITIONING MUD & HOLE																								
Driller	Joseph A. Katchun						Driller	WIER						Driller	A. P. Pinner														

HEADING UP & DRG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

DRILLING: FISHING: TRIPPING: W.O.C. W.O. ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY ROSE IN USE ROSE SERIAL No. YES NO

REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.: YES NO

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 24

Imp Red Knife LSD #1

SEC.

TWN.

RGE.

W.

Contractor Tri-City Drilling Rig 3

Type Rig Tooling 2500

Month March Day 25 1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.														
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation								
		3209	3240	3231	6 1/4							3240	3270	30	6 1/4							3270	3286	16	6 1/4									
		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.					Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.					Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.							
		3 1/2	103	3187.71	15.00	28.88						3 1/2	104	3218.67	16.46	28.88						4 1/2	104	3218.67	00	28.88								
DRILLING STRING		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL						DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL						DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL					
		COLLAR	1	4 3/4		28.88	DRILLING STRING				DRILL COLLARS						COLLAR	1	4 3/4		28.88	DRILLING STRING				DRILL COLLARS								
		DATA				28.88	15.00						DATA				11000	15000						DATA				112000	1500					
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE				No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE				No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE			
									Drilled	Reamed											Drilled	Reamed									Drilled	Reamed		
		12	OSC	8:45 PM		11 1/4		15000	43	30			12	OSC	8:15 AM		19		15000	73	30			12	H.T.		10 PM	23 3/4	3286	15000	89	30		
		Bit Serial No. 32933 Table R.P.M. 120										Bit Serial No. 32933 Table R.P.M. 120										Bit Serial No. 32933, 32104 Table R.P.M. 120												
		Jet or Conventional - Nozzle Size										Jet or Conventional - Nozzle Size										Jet or Conventional - Nozzle Size												
SURVEYS		Kind	at		Ft.		Deg. off						Kind	at		Ft.		Deg. off						Kind	at		Ft.		Deg. off					
		HOURS										HOURS												HOURS										
		On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size					On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size							On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size					
				500	10	75	5"							500	10"	75	5"									550	10	75	5"					
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS						Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS						Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS					
		12.00	82	10			25# Cement						8.00	76	10.2									4.00	87	10.2			Cement 50#					
		2.00	81	10			50# Lignosulfonate						10.00	77	10.2									6.00	88	10.2	7.5	7.5	Lignosulfonate 50#					
		4.00	80	10	7.5	8.2							12.00	76	10.2	7.5	.8							8.00	89	10.2								
		6.00	79	10.1									2.00	78	10.3									10.00	91	10.2	7.5							
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.						From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.						From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.					
DETAIL OF OPERATIONS AND REMARKS				From	To	Hrs.									From	To	Hrs.											From	To	Hrs.				
		DRLG		12.00	8.00	8							Service Rig Check BOP		8.00	8.15	1/4							DRLG		4.00	4.30	1/2						
													DRLG		8.15	4.00	7 3/4							DRLG		4.30	5.00	1/2						
																								DRLG		5.00	9.15	4 1/2						
																								DRLG		9.15	10.00	3/4						
																						DRLG		10.00	12.00	2								

Driller

Joseph A. Ketchum

Driller

R. W. Wain

Driller

S. P. Pinner

HEADING UP & DRLG. OUT:
DRILLING:
REAMING:CLASSES OF TIME BREAKDOWN
TOTCOV
FISHING:
CIRCULATING:CONDITIONING MUD:
TRIPPING:
CORING:CASING:
W.O.C.
D.S. TESTING:LOGGING:
W O ORDERS:
RIG REPAIRS:RIG MAINTENANCE:
MISCELLANEOUS:
CONDITION HOLE:REAMING CLEANING:
WORKING PIPE:
LOST CIRC.:

MNFR. DRILLING LINE IN USE

REEL SERIAL No.

MNFR. OF KELLY HOSE IN USE

HOSE SERIAL No.

DID YOU CHECK BLOWOUT
PREVENTER-EQUIPMENT TODAY

YES NO

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

E. P. Pinner

Imp. Kied Knife LSD #1 SEC. TWN. RGE. W. Contractor Tri City Drilling Rig 3 Type Rig Trailing 2500 Month March Day 24 1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH	From		To		Hole Made	Hole Size	Formation
	From	To	From	To			
	3167	3178	11	6'8"			

DRILLING STRING	Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
	Size-D.P.	Stands					
	3 1/2"	100	3094.29	28.88	45.35		

BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	
								Drilled	Reamed
	1	4	530	2 1/2	10:00	11			

SURVEYS	Kind	at	Ft.	Deg. off	HOURS					
					On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
							600	10	57	5"

MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				
	600	100	10	6.5	8					

CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.

DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.

DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.

Driller: Joseph A. Katchun Driller: R. Wein Driller: A. Poirson

HEADING UP & DRG. OUT:
DRILLING:
REAMING:

CLASSES OF TIME BREAKDOWN

FISHING: CONDITIONING MUD:
CIRCULATING: TRIPPING:

CASING: W.O.C.
D.S. TESTING:

LOGGING: W O ORDERS:
RIG REPAIRS:

RIG MAINTENANCE: MISCELLANEOUS:
CONDITION HOLE:

REAMING CLEANING: WORKING PIPE:
LOST CIRC:

MNFR. DRILLING LINE IN USE
MNFR. OF KELLY HOSE IN USE

REEL SERIAL No.

HOSE SERIAL No.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

E. A. H.

Imp. Rat Knife LSD. #1 SEC. TWN. RGE. W. Contractor *Trin City Drilling Rig* Type Rig *Trailing 2500* Month *March 23* Day *1963*

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.																															
DEPTH		From	To	Hole Made	Hole Size	Formation									From	To	Hole Made	Hole Size	Formation									From	To	Hole Made	Hole Size	Formation																													
		3080	3116	36	6 1/4										3116	3156	40	6 1/4										3156	3167	11	6 1/4																														
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.								Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.								Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																												
		3 1/2	98	3038.5	49.00	54.93									3 1/2	99	2962.68	60.52	54.93									3 1/2	100	3093.93	19.70	54.93																													
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																									
COLLAR		2	3 3/4		54.93	DRILLING STRING										COLLAR	2	4 3/4		54.93	DRILLING STRING										COLLAR	2	4 3/4		54.93	DRILLING STRING																									
DATA					3700	3000										DATA				40000	3000										DATA				40000	3000																									
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE							No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE							No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																								
		11	2WV	8PM		1534		15000	41							RR	2WV	8AM		234		15000	40							11RR	2WV			263	3167	15000	92																								
		Bit Serial No. 33845										Table R.P.M. 120										Bit Serial No. 33845										Table R.P.M. 120										Bit Serial No. 33845										Table R.P.M. 120									
		Jet or Conventional -										Nozzle Size										Jet or Conventional -										Nozzle Size										Jet or Conventional -										Nozzle Size									
SURVEYS		Kind	at		Ft.		Deg. off												Kind	at		Ft.		Deg. off												Kind	at		Ft.		Deg. off																				
HOURS		On Line		Circulating		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size											On Line		Circulating		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size											On Line		Circulating		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																
						550	10	75	5															550	10	75	5															550	10	75	5																
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS										Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS										Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																								
		1200	63	10.1	7.5	9	25# Concretion										10	84	10.2	8	8											400	75	10.2	7	8	100.16 Drincore.																								
		200	75	10.1			50# Spiramer										130	78	10.2													600	75	10.2																											
		400	79	10.1			800# Gel																																																						
		600	85	11.1																																																									
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.									From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.									From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																										
DETAIL OF OPERATIONS AND REMARKS																	DRLG 8.00 1200 8 Superior Rig Check BOP DRLG															DRLG 8.10 9.15 1 1/2 9.15 9.30 1/4 9.30 11.00 6 1/2															DRLG 4.00 4.15 1/4 4.15 6.00 1 3/4 6.00 7.30 1 1/2 7.30 9.00 1 1/2 9.00 12.00 3														
Driller		<i>Joseph R. Katchura</i>															Driller <i>R. Wain</i>															Driller <i>H. Poirson</i>																													

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO

REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

Total Contract Timehrs. Total Company Timehrs. Toolpusher Approved by *E. P. H.*

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 21

Imp Red Knifeld #1

SEC.

TWN.

RGE.

W.

Contractor

Tri-City Drilling Rig 3

Type Rig

Fishing 2500

Month

March

Day

22

1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH	From		To		Hole Made	Hole Size	Formation	From		To		Hole Made	Hole Size	Formation	From		To		Hole Made	Hole Size	Formation						
	From	To	From	To				From	To	From	To				From	To											
	3035	3055	20	6 1/8	DOLOMITE			3055	3075	20	6 1/8	DOLO.			3075	3080	5	6 1/4	LIME								
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.							
	3 1/2	94	2939.16	2300	5493	45.35		3 1/2	95	2969.16	268	54.93	45.35		3 1/2	97	3009.98	14.82	54.93								
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL							
	COLLAR	2	2 3/4		5493	DRILLING STRING	DRILL COLLARS		COLLAR	2	2 3/4	2 3/4	5493	DRILLING STRING	DRILL COLLARS		COLLAR	2	2 3/4	2 3/4	5493	DRILLING STRING	DRILL COLLARS				
	DATA				35000	3000		DATA				38000	3000		DATA				39 M	3000							
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE			
	1	◇	245		5 1/4		10000	20																			
SURVEYS	Bit Serial No.		4908C		Table R.P.M.		90		Bit Serial No.		4908C		Table R.P.M.		80		Bit Serial No.		33845		Table R.P.M.		120				
	Jet or Conventional				Nozzle Size				Jet or Conventional				Nozzle Size				Jet or Conventional				Nozzle Size						
	Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off				
	HOURS		On Line		Circulating		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size		HOURS		On Line		Circulating		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS			Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS			Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS					
	4.00	70	9.9	8	9				8.00	66	10.1						10.00	68	10.1	7.5	8						
	6.00	68	10.1						11.00	66	10.1	8	8														
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.							
	3035	3055	Coring		4	BOYLES		3035	3075	40	40	4	BOYLES														
DETAIL OF OPERATIONS AND REMARKS																											
Driller: Joseph A. Katchur							Driller: R. Weir							Driller: S. Paimon													

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

DRILLING: FISHING: TRIPPING: W.O.C. MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO

REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

B. Paimon

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 20

Drilled Knife LSD. #1 SEC. TWN. RGE. W. Contractor Tri City Drilling Rig Type Rig Fairing 2500 Month March Day 21 1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.																															
DEPTH		From	To	Hole Made	Hole Size	Formation				From		To	Hole Made	Hole Size	Formation				From		To	Hole Made	Hole Size	Formation																											
		3012	3035	23	6 7/8	Limestone				2969		3015	116	6 1/4					3015		20	3035	6 1/4																												
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																												
		3 1/2	94	280925	1300	54.93	45.35			3 1/2	95	294689	117.73	54.93				3 1/2	96	2970	29.70	54.93	45.35																												
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																											
COLLAR		2	3 3/4		54.93	DRILLING STRING				COLLAR	2	4 3/4		54.93	DRILLING STRING				COLLAR	2	4 3/4		54.93	DRILLING STRING																											
DATA						33000				DATA					36000				DATA					38000																											
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																								
		1	D		5:30	6	3035	10000	26		11	WDU			3			5000	46		1	WDU			2		14	3000	60																						
SURVEYS		Bit Serial No. <u>4908C</u> Table R.P.M. <u>80</u>										Bit Serial No. <u>33845</u> Table R.P.M. <u>120</u>										Bit Serial No. <u>33845</u> Table R.P.M. <u>120</u>																													
PUMP RECORD		Jet or Conventional - <u>Nozzle Size</u>										Jet or Conventional - <u>Nozzle Size</u>										Jet or Conventional - <u>Nozzle Size</u>																													
No. 1		Kind at Ft. Deg. off										Kind at Ft. Deg. off										Kind at Ft. Deg. off																													
No. 2		HOURS										HOURS										HOURS																													
		On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size				On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size				On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																										
				675	10	57	5"						400	10"	75	5"						500	10	75	5"																										
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																										
		2.00	72	10.3	8	9														4	72	10.2			Sch 1600																										
		4.00	70	10.3																8 00	105	10.2	7.6	9.5	Dawson 50 water																										
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.					From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.					From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																								
		3009	3035	26	26	3						3009	3035	26	26	3	Boyles																																		
DETAIL OF OPERATIONS AND REMARKS		From To Hrs.										From To Hrs.										From To Hrs.																													
		Coring										Finish pulling out of hole										Ream rat hole to bottom																													
		Trip out (tight hole 2880-2850)										Recover core - service										Condition mud																													
		2750-2600										core barrel to lay down										pull out to run core BBL																													
		5:31 8:00										Service Rig + Check BBL										pick up core BBL																													
												Run in with bit										Run in with core BBL																													
												Break circulation + Ream																																							
												Repack water swirl																																							
												Reaming																																							
Driller		<u>Joseph A. Katcher</u>										Driller										<u>R. W. Wain</u>										Driller										<u>A. P. Poirson</u>									

HEADING UP & DRG. OUT:
DRILLING:
REAMING:

CLASSES OF TIME BREAKDOWN
TOTCO:
FISHING:
CIRCULATING:

CONDITIONING MUD:
TRIPPING:
CORING:

CASING:
W.O.C.
D.S. TESTING:

LOGGING:
W O ORDERS:
RIG REPAIRS:

RIG MAINTENANCE:
MISCELLANEOUS:
CONDITION HOLE:

REAMING CLEANING:
WORKING PIPE:
LOST CIRC.:

MNFR. DRILLING LINE IN USE
MNR. OF KELLY HOSE IN USE

REEL SERIAL No.

HOSE SERIAL No.

DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Time

Total Company Time

Toolpusher

Approved by

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No.

 Job Red Kimp LSD SEC. TWN. RGE. W. Contractor Tri-City Drilling R³ Type Rig Failing 2500 Month March 89 Day 1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.																						
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation																
		2912	2927	15	6 1/4	Limestone						2927	2951	24	6 1/4							2951	2969	18	6 1/4																	
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.				DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.				DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.													
		3 1/2	92	2846	1328	54.93							3 1/2	93	5872	2044	54.93							3 1/2	93	5872	2044	54.93														
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																
COLLAR						DRILLING STRING				DRILL COLLARS				COLLAR						DRILLING STRING				DRILL COLLARS				COLLAR						DRILLING STRING				DRILL COLLARS				
DATA		2	3 3/4			54.93	25000				3000				DATA						38000				3000				DATA						38000				3000			
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE											
		10	OWV	300		5		15000	15	35			10	OWV			13		14000	13	35			10	OWV			10 1/2	14 1/4	2969	15000	57	35									
		Bit Serial No. 74733				Table R.P.M. 120						Bit Serial No. 74733				Table R.P.M. 120						Bit Serial No. 74733				Table R.P.M. 120																
		Jet or Conventional -				Nozzle Size						Jet or Conventional -				Nozzle Size						Jet or Conventional -				Nozzle Size																
SURVEYS		Kind	at	Ft.	Deg. off				SURVEYS		Kind	at	Ft.	Deg. off				SURVEYS		Kind	at	Ft.	Deg. off																			
HOURS		On Line		Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		On Line		Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		On Line		Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																
					4.75	10	75	10							5.50	10	75	5"							5.50	10	75	5"														
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS													
		4:00	38	10.1	11	8	1200# Gel						8:00	50	10.3			700# Gel						4:00	60	10.3	8	8	Gel 600#													
		6:00	45	10.1			100# Sparmax						10:00	50	10.3			30# Drilco						6:00	60	10.3		8	CAUSTIC 50#													
							50# Contec						2:00	58	10.3	9	8							8:00	60	10.3																
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.													
DETAIL OF OPERATIONS AND REMARKS		Break down Core Barrel day down				From	To	Hrs.	Casing				From				To	Hrs.	Drilling				From				To	Hrs.	Only													
		Trip in				12:00	12:45	3/4					8:00				11:00	1 1/4					4:00				12:45	3/4														
		Break Circulation & ream				12:45	3:00	2 1/4																4:45				5:00	1/4													
		DRLG				3:00	5:15	2 1/4																5:00				8:15	3 1/4													
						5:15	8:00	2 3/4																8:15																		
																								10:15				2														
																								Trip out to pen core R.B.L.				10:15	12:00	1 3/4												
Driller		Joseph A. Katchun				Driller				R. Whinn				Driller				B. Poirson																								

 HEADING UP & DRLG. OUT:
 DRILLING:
 REAMING:

 CLASSES OF TIME BREAKDOWN
 TOTCO:
 FISHING:
 CIRCULATING:

 CONDITIONING MUD:
 TRIPPING:
 CORING:

 CASING:
 W.O.C.
 D.S. TESTING:

 LOGGING:
 W O ORDERS:
 RIG REPAIRS:

 RIG MAINTENANCE:
 MISCELLANEOUS:
 CONDITION HOLE:

 REAMING CLEANING:
 WORKING PIPE:
 LOST CIRC.:

 MNFR. DRILLING LINE IN USE
 MNFR. OF KELLY HOSE IN USE

 REEL SERIAL No.
 HOSE SERIAL No.

 DID YOU CHECK BLOWOUT
 PREVENTER EQUIPMENT TODAY
 YES NO

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

B.H.H.

Total Contract Timehrs. Total Company Timehrs. Toolpusher Approved by

IMP. RED KNIFE LSD. #1 SEC. TWN. RGE. W. Contractor TRI-CITY DRILLING Type Rig FAILING 2500 Month MARCH Day 17 1962

DATE	TIME	SEC.	TWIN	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH				From To Hole Made Hole Size Formation	From To Hole Made Hole Size Formation	From To Hole Made Hole Size Formation
				2682 2776 94 6 1/4 shale	2776 2838 62 6 1/4 shale	2838 2875 37 6 1/4 shale
DRILLING STRING				Size-D.P. Stands Singles Kelly Drill. Collar Ft. Core Bbl. Ft.	Size-D.P. Stands Singles Kelly Drill. Collar Ft. Core Bbl. Ft.	Size-D.P. Stands Singles Kelly Drill. Collar Ft. Core Bbl. Ft.
				3 1/2 87 2690.22 8.00 34.93	3 1/2 89 2751.18 7.80 54.93	3 1/2 90 2783.94 3.00 54.93
BIT RECORD				DRILL Number OD ID Length INDICATOR WEIGHT OF TOTAL	DRILL Number OD ID Length INDICATOR WEIGHT OF TOTAL	DRILL Number OD ID Length INDICATOR WEIGHT OF TOTAL
				COLLAR 2 2 3/4 34.93 DRILLING STRING DRILL COLLARS	COLLAR 2 1 3/4 54.93 DRILLING STRING DRILL COLLARS	COLLAR 2 1 3/4 54.93 DRILLING STRING DRILL COLLARS
				DATA 3400 300	DATA	DATA 3800 3000
SURVEYS				No. Type Time On Bottom At Time Pulled At Total Hours Run Depth Pulled Weight On Bit M Pounds FOOTAGE Drilled Reamed	No. Type Time On Bottom At Time Pulled At Total Hours Run Depth Pulled Weight On Bit M Pounds FOOTAGE Drilled Reamed	No. Type Time On Bottom At Time Pulled At Total Hours Run Depth Pulled Weight On Bit M Pounds FOOTAGE Drilled Reamed
				9 OSC-10 3 1/4 27 3/4 19000 332	9 OSC-10 5 3/4 24 1/2 33 1/2 2938 19000 394	9 OSC-10 8 3/4 3 1/4 19000 37 45
PUMP RECORD				Bit Serial No. 97079 Table R.P.M. 120	Bit Serial No. 97079 Table R.P.M. 120	Bit Serial No. 69258 Table R.P.M. 120
				Jet or Conventional - Nozzle Size	Jet or Conventional - Nozzle Size	Jet or Conventional - Nozzle Size
MUD RECORD				Kind at Ft. Deg. off	Kind at Ft. Deg. off	Kind at Ft. Deg. off
				HOURS On Line Circulating Pump Press Length of Pump Stroke Strokes Per Min. Liner Size	HOURS On Line Circulating Pump Press Length of Pump Stroke Strokes Per Min. Liner Size	HOURS On Line Circulating Pump Press Length of Pump Stroke Strokes Per Min. Liner Size
				450 10 75 5	450 10 75 5	425 10 75 5
CORING				Time Visc. Wt. W L pH ADDITIVES — POUNDS	Time Visc. Wt. W L pH ADDITIVES — POUNDS	Time Visc. Wt. W L pH ADDITIVES — POUNDS
				12.00 38 10.4 9 8 5000 Gel Water	8.00 38 10.5 10 8	8.00 38 9.2 8 8 Gel 1200
				2.00 37 10.3	10.00 39 10.5	10.00 37 9.8 12 8 Spessene 100
				4.00 37 10.3	12.00 39 10.6 10 8	Water 25
				6.00 38 10.4		
DETAIL OF OPERATIONS AND REMARKS				From To Hrs.	From To Hrs.	From To Hrs.
				DRILL 1200 800 8	DRILL 900 900 1	DRILL 400 500 1
				Service Rig - Check BOP	900 915 1/2	Service Rig - Check BOP
				Circulate sample	915 130	Circulate sample
				Circulate sample	130 200	Circulate sample
				DRILL	200 230	DRILL
				Circulate	230 245	Circulate
				Trip for Bit	245 400	Trip for Bit
Driller: Joseph A. Katchner				Driller: R. Wain	Driller: H. Fournier	

CLASSES OF TIME BREAKDOWN										DID YOU CHECK BELOW?	
HEADING UP & DRLG. OUT:	TOTL:	CONDITIONING MUD:	CASING:	LOGGING:	RIG MAINTENANCE:	REAMING CLEANING:	MNFR. DRILLING LINE IN USE	REEL SERIAL No.	PREVENTER EQUIPMENT TODAY		
DRILLING:	FISHING:	TRIPPING:	W.O.C.	W O ORDERS:	MISCELLANEOUS:	WORKING PIPE	MNFR. OF KELLY HOSE IN USE	HOSE SERIAL No.	YES	NO	
REAMING:	CIRCULATING:	CORING:	D.S. TESTING:	RIG REPAIRS:	CONDITION HOLE:	LOST CIRC.					

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

**DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY?**

Imp Red Knife LSD #1 SEC. TWN. RGE. W. Contractor Tri-City Drilling Rig 3 Type Rig Triking 2500 Month March Day 16 1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH	From		To		Hole Made	Hole Size	Formation	
	From	To	From	To				
	2444	2495	51	6 1/4	Shale			
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.		
	3 1/2		2410.11	4 8-00	54.93			
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		
	COLLAR	2	4 3/4		54.93	DRILLING STRING	DRILL COLLARS	
	DATA				32000	3000		
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE
	9	OSC-16	3.00		4 1/4		19000	51 25
	Bit Serial No.	97079			Table R.P.M.	120		
	Jet or Conventional	-			Nozzle Size			
SURVEYS	Kind	at		Ft.		Deg. off		
	HOURS	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	
				450	10	75	5	
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		
	4.00	38	9.9	11	8	25% Casoria		
	6.00	38	9.9			50% Sparrow		
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		
DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.					
	Finish pulling out of hole, lay down							
	4 flex pipe, replace with 4 1/2 3 1/2	1200	300	3				
	run in hole							
DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.					
	break circulation + run (25 ft)	300	3.45	3 1/4				
	DRUG	345	800	4 1/4				
DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.					
	Delay	800	845	3/4				
	Service Rig Check R.O.P.	845	900	1/4				
	Delay	900	1000	1				
DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.					
	Delay	1000	1045	1/4				
	Service Rig	1045	1100	1/4				
	Delay	1100	1200	1				

Driller Joseph A. Katchur

Driller R. W. Wain

Driller S. P. Poirson

HEADING UP & DRLG. OUT: TOFCO: FISHING: CIRCULATING: CASING: W.O.C. D.S. TESTING: LOGGING: W O ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.: MNFR. DRILLING LINE IN USE: REEL SERIAL No.: MNFR. OF KELLY HOSE IN USE: HOSE SERIAL No.: DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY: YES ☒ NO ☐

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher _____ Approved by _____

IMPERIA OIL LIMITED

DAILY DRILLING REPORT No. 14

Imp Red Knife #1 LSD #1 SEC. TWN. RGE. W. Contractor Trie City Drilling Type Rig Failing 2500 Rig 3 Month March Day 15 1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH	1st Tour From: 12:00 Midnight To: 8:00 a.m.					2nd Tour From: 8:00 a.m. To: 4:00 p.m.					3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																																													
	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation																																																									
	2135	107	2242	6 1/4	Shale	2242	2345	103	6 1/4	Shale	2345	2444	99	6 1/4	Shale																																																									
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																																																						
	3 1/2		2163.80	15.64	54.93		3 1/2		2257.87	6.52	54.93		4 1/2	76	2350	DOWN	54.93																																																							
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																																																						
	COLLAR	2	2 3/4			54.93	DRILLING STRING	DRILL COLLARS	COLLAR	2	4 3/4			54.93	DRILLING STRING	DRILL COLLARS	COLLAR	2	4 3/4			54.93	DRILLING STRING	DRILL COLLARS																																																
DATA					32000	3000	DATA					35000	2000	DATA					36000	3000																																																				
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M. Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M. Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M. Pounds	FOOTAGE																																														
	8	6 1/4			12 1/2		13000	171		8	OSC-3			20 1/4		20000			8	OSC-3			26 3/4	2444	18000	373																																														
	Bit Serial No.	80583				Table R.P.M. 120				Bit Serial No.	80583				Table R.P.M. 120				Bit Serial No.	805893				Table R.P.M. 120																																																
	Jet or Conventional -					Nozzle Size				Jet or Conventional -					Nozzle Size				Jet or Conventional -					Nozzle Size																																																
SURVEYS	Kind	at				Ft.				Deg. off				Kind	at				Ft.				Deg. off				Kind	at				Ft.				Deg. off																																				
	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																																																						
	On Line	Circulating					On Line	Circulating					On Line	Circulating																																																										
			350	10	75	5"			400	10	75	5"																																																												
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																																																
	12.00	35	9.8	14	9					8.00	36	10			200# Spersene				4.00	38	10.1	11	8																																																	
	2.00	36	9.8							10.00	217				600# Gel				6.00	38	10.1																																																			
	4.00	35	9.8							12.00	211								8.00	36	10	11	8																																																	
	6.00	37	9.7							2.00	37	10.1	12	9					10.00	40	10.2																																																			
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																																																						
DETAIL OF OPERATIONS AND REMARKS	From						To						Hrs.						From						To						Hrs.						From						To						Hrs.																							
	DRIG						12.00						8.00						8						DRIG						8.00						9.15						1 1/4						DRIG						4.00						4.15						5					
																									Service Rig - Check BOP.						9.15						9.30						1/4						DRIG						4.15						10.30						6 1/2					
																									DRIG						9.30						11.00						6 1/2						DRIG						10.30						12.00						1 1/2					
Driller: <u>Joseph A. Katchur</u>																		Driller: <u>R. Wein</u>																		Driller: <u>A. Poirson</u>																																				

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by B.H.A.

Form 34402 (300 bks.-10-61)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. ~~12~~ 13

Form 34402 (300 bks.-10-61)

Emp Red Knife LSD# *1* SEC. _____ TWN. _____ RGE. _____ W. _____ Contractor *Tri-City Drilling* Type Rig *Teeling 2500 Rig³* Month *March 14* Day _____ 19*62*

2nd Tour From: 4:00 a.m. To: 12:00 a.m.

1st Tour From: **12:00** Midnight To: **8:00** a.m.

2nd Tour From: **8:00** a.m. To: **4:00** p.m.

3rd Tour From: **4:00** p.m. To: **12:00** p.m.[illegible][illegible]

Total Contract Timehrs. Total Company Timehrs. Toolpusher Approved by *[Signature]*

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 12

LSD #1

SEC.

TWN.

RGE.

W.

Contractor

Tri-City Drilling

Type Rig

Jacking 2500 Rig³

Month March 13

Day 1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.														
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation								
		1796	1826	30	6 1/4	Shale						1826	1875	49	6 1/4	Shale						1875	1960	85	6 1/4	Shale								
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.							
		3 1/2	173295		0	54.93						3 1/2	58		11.73	54.93						4 1/2	61		1884.30	18'	54.93							
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL								
COLLAR		2	3 3/4		54.93	DRILLING STRING				COLLAR		2	4 3/4		54.93	DRILLING STRING				COLLAR		2	4 3/4	2 1/2	54.93	DRILLING STRING								
DATA		26000				3000				DATA		26000				3000				DATA		31000				3000								
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE			
		6	6 1/4	5:30	2:12	1826	14000	30					7	6 1/4	12:00	2:34	14000							7	6 1/4	11:00	11	14000	134					
		Bit Serial No. 69258				Table R.P.M. 120						Bit Serial No. 97088				Table R.P.M. 120						Bit Serial No. 97088				Table R.P.M. 120								
		Jet or Conventional -				Nozzle Size						Jet or Conventional -				Nozzle Size						Jet or Conventional -				Nozzle Size								
SURVEYS		Kind	at	Ft.	Deg. off				SURVEYS		Kind	at	Ft.	Deg. off				SURVEYS		Kind	at	Ft.	Deg. off											
HOURS		On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size											
				300	10	75	5"					325	10	75	5"					325	10	75	5"											
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS					
							100" Bar-sulfonate shale																	4:00	35	10.1		11	Spermac 100 lbs.					
							50" Spermac																	6:00	38	9.2		11						
							25" Caustic																	8:00	38	10	16	11						
																								10:00	38	10								
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.					
DETAIL OF OPERATIONS AND REMARKS		Run in hole, break				From	To	Hrs.	Run in hole, break				Run in hole, break				From	To	Hrs.	Run in hole, break				Run in hole, break				From	To	Hrs.	Run in hole, break			
		Circulation 1200', 1600'				12:00	1:40	1	Circulation 1200', 1600'				Circulation 1200', 1600'				Circulation 1200', 1600'				Circulation 1200', 1600'				Circulation 1200', 1600'				Circulation 1200', 1600'					
		Run 120' of hole carrying up to 14000' on bit				1:00	3:40	2	Run 120' of hole carrying up to 14000' on bit				Run 120' of hole carrying up to 14000' on bit				Run 120' of hole carrying up to 14000' on bit				Run 120' of hole carrying up to 14000' on bit				Run 120' of hole carrying up to 14000' on bit									
		DRLG				3:00	5:30	2 1/2	DRLG				DRLG				DRLG				DRLG				DRLG				DRLG					
		DROP WEIGHT ON KELLY				DROP WEIGHT ON KELLY				DROP WEIGHT ON KELLY				DROP WEIGHT ON KELLY				DROP WEIGHT ON KELLY				DROP WEIGHT ON KELLY				DROP WEIGHT ON KELLY								
		BUSHINGS				BUSHINGS				BUSHINGS				BUSHINGS				BUSHINGS				BUSHINGS				BUSHINGS								
		LOST DRIVE PINS 3-18"x10" DOWN HOLE				LOST DRIVE PINS 3-18"x10" DOWN HOLE				LOST DRIVE PINS 3-18"x10" DOWN HOLE				LOST DRIVE PINS 3-18"x10" DOWN HOLE				LOST DRIVE PINS 3-18"x10" DOWN HOLE				LOST DRIVE PINS 3-18"x10" DOWN HOLE				LOST DRIVE PINS 3-18"x10" DOWN HOLE								
		CIRCULATE				5:30	6:15	3/4	CIRCULATE				CIRCULATE				CIRCULATE				CIRCULATE				CIRCULATE									
		Driller: Joseph A. Katchar				Driller: R. Whin				Driller: R. Whin				Driller: R. Whin				Driller: R. Whin				Driller: R. Whin				Driller: R. Whin								

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT:
DRILLING:
REAMING:TOTCO:
FISHING:
CIRCULATING:CONDITIONING MUD:
TRIPPING:
CORING:CASING:
W.O.C.
D.S. TESTING:LOGGING:
W O ORDERS:
RIG REPAIRS:RIG MAINTENANCE:
MISCELLANEOUS:
CONDITION HOLE:REAMING CLEANING:
WORKING PIPE:
LOST CIRC:

MNFR. DRILLING LINE IN USE

MNFR. OF KELLY HOSE IN USE

REEL SERIAL No.

HOSE SERIAL No.

DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAYYES ☒ NO ☐

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

100% REP KNIFE #1 LSD SEC. TWN. RGE. W. Contractor TRI-CITY DRILLING Type Rig FAIRING 2500 Month MARCH Day 12 1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																														
DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation																																						
1796																249.00																1796																																												
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.				Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.				Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																																																	
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																																						
COLLAR		DRILLING STRING													COLLAR		DRILLING STRING													COLLAR		DRILLING STRING																																												
DATA															DATA															DATA																																														
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																																															
									Drilled	Reamed									Drilled	Reamed									Drilled	Reamed																																														
Bit-Serial No.		Table R.P.M.													Bit-Serial No.		Table R.P.M.													Bit-Serial No.		Table R.P.M.																																												
Jet or Conventional -		Nozzle Size													Jet or Conventional -		Nozzle Size													Jet or Conventional -		Nozzle Size																																												
SURVEYS		Kind	at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off																																													
HOURS		On Line		Circulating		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		On Line		Circulating		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		On Line		Circulating		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		On Line		Circulating		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																																					
No. 1										No. 2										No. 3										No. 4																																														
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS										Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS										Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																																					
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																																									
DETAIL OF OPERATIONS AND REMARKS		WOC thru out hydro as per up and run in hole (touch plug at 179 ft) drill plug 12:00 4:00 4:00 6:00 6:00 8:00															Drilling out plug Run in bit pull out & run tap to fish plug Run in bit drill out cement pull bit & run casing collar 8:00 11:00 11:00 12:30 12:30 3:00 3:00 4:00															work casing roller pull casing roller run in with Bit plugged bit & work pipes pull out plugged bit dig out plugged bit + O.C. 90' start in with Bit 4:00 4:30 4:30 5:00 5:00 7:00 7:00 8:00 8:00 10:00 10:00 11:00 11:00 12:00																																												
Driller		Joseph A. Katchar															Driller															R. Ulin															Driller															J. J. J.														

CLASSES OF TIME BREAKDOWN

HEADING UP & DRG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES ☒ NO

REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by GAH

Type Rig Trailing 2500 Rig 3 Month March Day 11 1962

3rd Tour From: **4:00** p.m. To: **12:00** p.m.

Approved by _____

by

Month March 10 Day 62 19



Total Contract Timehrs. Total Company Timehrs. Toolpusher 2/2/3 Approved by E.H.A.

Day 19 62

Total Contract Timehrs. Total Company Timehrs. Toolpusher Approved by BTH

LSD. SEC. TWN. RGE. W.

Contractor

Type Rig

Month March Day 7 1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH	1st Tour From: 12:00 Midnight To: 8:00 a.m.					2nd Tour From: 8:00 a.m. To: 4:00 p.m.					3rd Tour From: 4:00 p.m. To: 12:00 p.m.																								
	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation																				
640	767	137	6 1/4	limestone		767	827	60	6 1/4		827	980	153	6 1/2	lime + silt																				
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																	
	3 1/2		678.84	35.91	58.15		3 1/2		741.24	35.91	58.15		11 3/4		694.69	up 11'	(2) 58.15																		
DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL												
COLLAR	2	4 3/4		58.15	DRILLING STRING				COLLAR	2	4 3/4		58.15	DRILLING STRING				COLLAR	2	4 3/4	2 1/2	58.15	DRILLING STRING												
DATA					20000				DATA					20000				DATA					19600												
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE									
	2	OSC-16	430		15 1/4		13000	252		2	4 3/4	43	3 1/2	22	827	14000	302		3	OSC-16	430		5 1/2		14000	153	254								
Bit Serial No. 72111					Table R.P.M. 120					Bit Serial No. 72111					Table R.P.M. 12					Bit Serial No. 33107					Table R.P.M. 120										
Jet or Conventional -					Nozzle Size					Jet or Conventional -					Nozzle Size					Jet or Conventional -					Nozzle Size										
SURVEYS	Kind	at	Ft.	Deg. off	HOURS				Kind	at	Ft.	Deg. off	HOURS				Kind	at	Ft.	Deg. off	HOURS														
	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size											
No. 1			300	10	75	5			300	10	75	5			175	10	75	5			175	10	75	5											
No. 2																																			
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS											
						Water													9:00	29	8.5		11	CEL	600										
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.											
DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.											
	DRIG	1200	8.00		Service Rig	8:00	8:15	1/4	DRIG	2100	4:15	1/4	DRIG	4:15	4:30	1/4	DRIG	4:30	9:30	5	DRIG	9:30	9:45	1/4	DRIG	9:45	10:45	1	DRIG	10:45	11:30	3/4	DRIG	11:30	12:00

Driller

Joseph A. Kalcikur

Driller

R. Wain

Driller

S. Paison

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTGO:
DRILLING: FISHING:
REAMING: CIRCULATING:CONDITIONING MUD: TRIPPING:
CORING:CASING: W.O.C.
D.S. TESTING:LOGGING: W O ORDERS:
RIG REPAIRS:RIG MAINTENANCE: MISCELLANEOUS:
CONDITION HOLE:REAMING CLEANING: WORKING PIPE:
LOST CIRC.:MNFR. DRILLING LINE IN USE
MNFR. OF KELLY HOSE IN USE

REEL SERIAL No.

HOSE SERIAL No.

DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Time hrs.

Total Company Time hrs.

Toolpusher

Approved by

D.F.A.

Contractor Tri-City Drilling

Month March Day 6

Contractor *Tri-City Drilling* Type Rig *3*

Month *March* Day *6* Year *1963*

	1st Tour From: 12:00 Midnight To: 8:00 a.m.						2nd Tour From: 8:00 a.m. To: 4:00 p.m.						3rd Tour From: 4:00 p.m. To: 12:00 p.m.																							
DEPTH	From	To	Hole Made	Hole Size	Formation		From	To	Hole Made	Hole Size	Formation		From	To	Hole Made	Hole Size	Formation																			
	402	485	83	6 1/4	Limestone		485	525	40'	6 1/4	Lime Stone		525	64'	118	6 1/4	LIME																			
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																		
			402-46	35.91	58.15		3 1/2		433.70	25.91	58.15		4' F.W.		552.33	1P 14'	58.15																			
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																		
	COLLAR	2	4 3/4		58.15	DRILLING STRING	COLLAR	2	4 3/4		58.15	DRILLING STRING	COLLAR	2	4 3/4	2	58.15	DRILLING STRING																		
	DATA				15000	3000	DATA				15000	3000	DATA				15000	3000																		
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE												
	1	Osc-16	3:15 PM		16		800	170	Reamed	1	Osc-16		3:30	22	825	8000	210	2	Osc-16	4:30		7 1/4		12000	110	20"										
	Bit Serial No.	72097					Table R.P.M.	120					Jet or Conventional -						Bit Serial No.	72097					Table R.P.M.	120					Jet or Conventional -					
SURVEYS	Kind	at		Ft.	Deg. off	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	Kind	at		Ft.	Deg. off	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	Kind	at		Ft.	Deg. off	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size			
	On Line	Circulating										On Line	Circulating										On Line	Circulating												
	No. 1							1.00	10	75	105		No. 2											No. 1												
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		
						Water																														
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.	Remarks	From	To	Hrs.	Remarks	From	To	Hrs.	Remarks	From	To	Hrs.	Remarks	From	To	Hrs.	Remarks	From	To	Hrs.	Remarks	From	To	Hrs.	Remarks	From	To	Hrs.	Remarks	From	To	Hrs.	Remarks
	DRUG	12:00	8:00		Service Rig - Check BOP	8:00	8:30	1/2	Run	8:30	9:30	1	Des Rig	4:00	4:20	1/5	Break on + run to bottom	4:20	4:30	1/10	Des Rig	4:30	4:45	1/4	Drop	4:45	12:00	7 1/2								
					Work on flow line	9:30	10:30	1	Drop	10:30	3:30																									
				Trip for test	3:30	4:00																														
Driller..... Joseph A. Ketchum								Driller..... R. W. W.								Driller..... E. Poinson																				

CLASSES OF TIME BREAKDOWN										DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY	
HEADING UP & DRLG. OUT:	TOTOO:	CONDITIONING MUD:	CASING:	LOGGING:	RIG MAINTENANCE:	REAMING CLEANING:	MNFR. DRILLING LINE IN USE	REEL SERIAL No.			
DRILLING:	FISHING:	TRIPPING:	W.O.C.	W O ORDERS:	MISCELLANEOUS:	WORKING PIPE:					
REAMING:	CIRCULATING:	CORING:	D.S. TESTING:	RIG REPAIRS:	CONDITION HOLE:	LOST-CIRC:	MNFR. OF KELLY HOSE IN USE	HOSE SERIAL No.	YES	NO	

Total Contract Timehrs. Total Company Timehrs. Toolpusher Approved by JEF

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 4

Jung Red Knight

LSD. 1

SEC.

TWN.

RGE.

W.

Contractor

Tri-City Drilling

Type Rig

3

Month

March

Day

5

1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH	1st Tour From: 12:00 Midnight To: 8:00 a.m.					2nd Tour From: 8:00 a.m. To: 4:00 p.m.					3rd Tour From: 4:00 p.m. To: 12:00 p.m.														
	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation										
											315	402	87	6 1/2	LIME STONE										
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.							
BIT RECORD	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL							
	COLLAR					DRILLING STRING	COLLAR					DRILLING STRING	COLLAR					DRILLING STRING							
	DATA					DRILL COLLARS	DATA					DRILL COLLARS	DATA					DRILL COLLARS							
SURVEYS	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	
								Drilled	Reamed								Drilled	Reamed						Drilled	Reamed
MUD RECORD	Bit Serial No.	Table R.P.M.				Bit Serial No.	Table R.P.M.				Bit Serial No.	Table R.P.M.													
	Jet or Conventional -	Nozzle Size				Jet or Conventional -	Nozzle Size				Jet or Conventional -	Nozzle Size													
	Kind	at	Ft.	Deg. off		Kind	at	Ft.	Deg. off		Kind	at	Ft.	Deg. off											
CORING	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size							
DETAIL OF OPERATIONS AND REMARKS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS							
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.							
DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.		From	To	Hrs.		From	To	Hrs.														
DETAIL OF OPERATIONS AND REMARKS	Driller: Joseph A. Katchur						Driller: R. Weir						Driller: R. Poirson												

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT:
DRILLING:
REAMING:TOTCO:
FISHING:
CIRCULATING:CONDITIONING MUD:
TRIPPING:
CORING:CASING:
W.O.C.
D.S. TESTING:LOGGING:
W O ORDERS:
RIG REPAIRS:RIG MAINTENANCE:
MISCELLANEOUS:
CONDITION HOLE:REAMING CLEANING:
WORKING PIPE:
LOST CIRC:MNFR. DRILLING LINE IN USE
MNFR. OF KELLY HOSE IN USEREEL SERIAL No.
HOSE SERIAL No.DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

LSD 1

SEC

TWN

RGE

W

Contractor

Tri-City Drilling

Type Rig 3

Month March

Day 4

1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH	1st Tour From: 12:00 Midnight To: 8:00 a.m.					2nd Tour From: 8:00 a.m. To: 4:00 p.m.					3rd Tour From: 4:00 p.m. To: 12:00 p.m.													
	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation									
	247	41	288	9	Line Stone	288	315	27	9	Line Stone														
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						
			157-03		112-38				187-16	7	113-38													
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL						
	COLLAR	2	6 1/4		55-23	DRILLING STRING	COLLAR	2	6 1/4		55-23	DRILLING STRING	COLLAR					DRILLING STRING						
	DATA	2	4 3/4		58-15	12 00	DATA	2	4 1/2		58-15		DATA											
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M. Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M. Pounds	FOOTAGE							
								Drilled	Reamed								Drilled	Reamed						
	B	OSC-3	1.30		6 1/2		8 00	41			B	OSC-3	2 3/4		9 1/2	315	8 00	68						
SURVEYS	Bit Serial No. 56672					Table R.P.M. 120					Bit Serial No. 56672					Table R.P.M. 220								
	Jet or Conventional -					Nozzle Size					Jet or Conventional -					Nozzle Size								
	Kind	at	Ft.	Deg. off		Kind	at	300	Ft.	1/2		Deg. off	Kind	at	Ft.	Deg. off								
PUMP RECORD	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size						
	On Line	Circulating					On Line	Circulating					On Line	Circulating										
	No. 1				10	75	5				10	75	5											
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				
	2:00	48				2 Cel							RAN 9 JTS OF 7" 20" SL R2 JSS											
	6:00	50				2 Saw dust							JAPANESE CASING TO 310.78 KB.											
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.						
DETAIL OF OPERATIONS AND REMARKS	Put on new Bit + Run in					From	To	Hrs.	Service Rig					From	To	Hrs.	W. G. C.							
	Work on Pump					1:00	1:30	1/2	Dile					8:00	11:00	2 3/4	4 1/2 12 00							
	DRG					1:30	8:00	6 1/2	Circulate & run 300' 1/2					11:00	11:15	1/4								
									Pull out to run casing					11:15	11:45	1/2								
									Prepare to run casing					11:45	12:00	1/4								
									Run casing					12:00	1:30	1/4								
									Circulate + head up to					1:30										
									Halibarton					2:00	1 1/2									
									Cementation					3:00	3:45	1/4								
Driller: Joseph A. Ketchum					Driller: R. Usher					WOC					3:15 4:00 24					Driller: A. Poirson				

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT:
DRILLING:
REAMING:TOTCO:
FISHING:
CIRCULATING:CONDITIONING MUD:
TRIPPING:
CORING:CASING:
W.O.C.
D.S. TESTING:LOGGING:
W O ORDERS:
RIG REPAIRS:RIG MAINTENANCE:
MISCELLANEOUS:
CONDITION HOLE:REAMING CLEANING:
WORKING PIPE:
LOST CIRC.:MNFR. DRILLING LINE IN USE
MNFR. OF KELLY HOSE IN USE

REEL SERIAL No.

HOSE SERIAL No.

DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher

Approved by

B.A.S.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 2

Job Red Knight LSD 1 SEC 1 TWN 1 RGE W Contractor Tri City Drilling Type Rig Fairing 2500 Month March Day 3 1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.																					
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation															
		135	150	15	9 7/8	Line Stone						150	216	66	9 7/8	Line Stone						216	247	31	9 7/8	LINE STONE															
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.				Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.				Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.														
						113.38																																			
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL															
COLLAR						DRILLING STRING				DRILL COLLARS				COLLAR						DRILLING STRING				DRILL COLLARS				COLLAR						DRILLING STRING				DRILL COLLARS			
DATA										DATA												DATA																			
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE														
		A	CSC-3			13		6000	150		A	CSC-3	4 3/4		17 3/4		9000	216		A	CSC-3		11 PM		24 1/2	247	7000	247													
SURVEYS		Bit Serial No. 70169 Table R.P.M. 120										Bit Serial No. 70169 Table R.P.M. 220										Bit Serial No. 70169 Table R.P.M. 120																			
SH PUMP RECORD		No. 1										No. 2										No. 1										No. 2									
MUD RECORD		Kind at Ft. Deg. off										Kind at Ft. Deg. off										Kind at Ft. Deg. off																			
		HOURS										HOURS										HOURS																			
		On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size				On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size				On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																
				100	10	75	5"						100	10	75	5"						50	10	75	5"																
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.					From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.					From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.														
DETAIL OF OPERATIONS AND REMARKS		D.M.G.										Break circulation near to Bottom										See Rig																			
		Repair 1500 packing on pump + wash										Service Rig										Duty																			
		Lost circulation / run water in pit + Condition mud										Work on mud pump										Strip for bit																			
		4.30 8.00 3 1/2										10 12 30 2 1/4										11 12 00 1																			
		4.30 8.00 3 1/2										12 30 12 45 1/4																													
												12 45 4 00 3 1/4																													
Driller		Joseph A. Katchur										Driller R. Wain										Driller S. Poirson																			

HEADING UP & DRUG. OUT: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W O ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.: MNFR. DRILLING LINE IN USE: REEL SERIAL No.: MNFR. OF KELLY HOSE IN USE: HOSE SERIAL No.: DID YOU CHECK BLOW OUT PREVENTER EQUIPMENT TODAY: YES NO

Total Contract Timehrs. Total Company Timehrs. Toolpusher Approved by R. Wain

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 1

1st Tour From: 12:00 Midnight To: 8:00 a.m. 2nd Tour From: 8:00 a.m. To: 4:00 p.m. 3rd Tour From: 4:00 p.m. To: 12:00 p.m.

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.															
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation									
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.				DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.				DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE				
SURVEYS		Kind at Ft. Deg. off				Kind at Ft. Deg. off				Kind at Ft. Deg. off				Kind at Ft. Deg. off				Kind at Ft. Deg. off				Kind at Ft. Deg. off				Kind at Ft. Deg. off				Kind at Ft. Deg. off					
HOURS		On Line		Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		On Line		Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		On Line		Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		On Line		Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS						
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.						
DETAIL OF OPERATIONS AND REMARKS		From				To	Hrs.	From				To	Hrs.	From				To	Hrs.	From				To	Hrs.	From				To	Hrs.				
		RIG UP				12:00	8:00	DIGGING RATHOLE				8	1	5	max mud & see Rig				4:00	4	45	3													
		DIG SUCTION PIT.						PREPARE TO SPUD				1	15	1/4	(gravel falling in)																				
								SPUD AT 1:15 PM							Only.				4	45	12	2 1/4													
								DRILLING				1	15	4:00	Hole tight in hole @ 100'																				
															- see to work pipe back up																				
Driller		Joseph A. Katchun				Driller				R. Weiss				Driller				B. Poirson																	

 HEADING UP & DRG. OUT:
 DRILLING:
 REAMING:

 CLASSES OF TIME BREAKDOWN
 TOTCO:
 FISHING:
 CIRCULATING:

 CASING:
 W.O.C.
 D.S. TESTING:

 LOGGING:
 W O ORDERS:
 RIG REPAIRS:

 RIG MAINTENANCE:
 MISCELLANEOUS:
 CONDITION HOLE:

 REAMING:
 CLEANING:
 WORKING PIPE:
 LOST C.C.:

 MNFR. DRILLING LINE IN USE
 MNFR. OF KELLY HOSE IN USE

 REEL SERIAL No.
 HOSE SERIAL No.

 DID YOU CHECK BLOWOUT
 PREVENTER EQUIPMENT TODAY
 YES NO

Total Contract Timehrs.

Total Company Timehrs.

Polpusher

Approved by

B. P.